



Atty Dkt. No.: LIFE008
LFS-101
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AMENDMENTS

In the Specification

Please amend the paragraph starting at line 6, page 3 as follows:

FIG. 3 provides a graphical representation of the effects of hydrogen peroxide concentration on DA-67 and TOOS-4AP coated ~~One-Touch~~ ONE-TOUCH® nylon membranes. TOOS-4AP strips were coated with a 0.02 M PBS, pH 7.4 solution containing 5 mM TOOS and 4AP respectively, 1 mg/ml HRP and 1% PVP (360K). The DA-67 strips were coated with 2.5 mM DA-67, 1 mg/ml HRP, 1% PVP(360 K) in 0.5 M pH 8.0 phosphate buffer

Please amend the paragraph starting at line 21, page 10 as follows:

As stated above, the aqueous solution will include various members of the composition to be associated with the test pad of the reagent test strip except the urea derivative dye and the organic solution will include the urea derivative dye member where all members are present in amounts sufficient to provide for the desired amounts in the reagent composition that is produced on the test pad. As such, the concentration of the analyte oxidase typically ranges from about 5×10^{-3} to 0.25 mM, usually from about 0.05 to 0.10 mM. Similarly, the peroxidase ranges in concentration from about 5×10^{-4} to 0.125 mM, and usually from about 0.005 to 0.05 mM, when present. The concentration of the urea derivative dye typically ranges from about 0.5 to 2 mM, usually from about 0.8 to 1.2 mM. Other components that may be present in the aqueous solution employed to prepare the reagent test strip include sodium chloride, magnesium chloride, Tris, PSSA, ~~Tetronic~~ TECTRONIC® 1307 non-ionic surfactant (sold by BASF Corp.), crotein, sucrose, oxamic acid, sodium salt, EDTA, mannitol, polymers such as PVP and PVBTA, and the like. See the examples section, *infra*, for a more detailed description of a representative method for preparing the subject reagent test strips.

Please amend the paragraph starting at line 4, page 15 as follows:

A ~~One-Touch~~ ONE-TOUCH® Nylon membrane was cut into strips of ¼" wide and 12" long, and the membrane strip was first coated with the A dip solution and then with the B dip solution (ingredient and concentration specified in the following table). After each coating, the membrane was dried in hot air oven for 10 minutes at 55°C. The coated membrane was stuck to a 2" × 12" ~~Melinex~~

MELINEX® support (a polyester film or sheet made by Du Pont), which has a 5 mm diameter circular hole opening every quarter inch along its length for color measurement. The ~~Melinex~~ MELINEX® support also has two stripes of 3/8" wide adhesive printed on top and bottom of holes. The membrane was laminated in the way that it completely covers the holes on ~~Melinex~~ the MELINEX® support. A layer of sample-spreading-~~Perex~~ POREX™ material (a porous high density polyethylene material made by Porex Corp.) (1"×12") was further laminated on top of membrane by adhesive printed on ~~Melinex~~ MELINEX® support. The whole assembly was then cut into 1/4" wide strips.

Please amend the paragraph starting at line 5, page 16 as follows:

To demonstrate the feasibility of color development on strips coated with stabilized DA-67 dye, a ~~One Touch~~ ONE-TOUCH® Nylon membrane was coated with a solution containing 2.5mM DA-67, 1mg/ml HRP and 1% PVP (MW=360K) in 0.5M pH 8.0 phosphate buffer. The membrane was then stuck to ~~Melinex~~ MELINEX® support, covered with ~~Perex~~ POREX™ material and cut into testing strips as described in example 2. Ten µL volumes of various concentrations of H₂O₂ solutions were dropped on the strips respectively, and the color formation was monitored using a ~~Macbeth reflectometer~~ MACBETH REFLECTOMETER™ (an instrument for measuring color by means of reflectance spectroscopy made by GretagMacbeth Corp.). To compare the detection sensitivity of DA-67 dye with that of the most commonly used dye for H₂O₂, TOOS-4AP, a ~~One Touch~~ ONE-TOUCH® Nylon membrane was coated with a solution containing 5mM TOOS, 5mM 4AP, 1mg/ml HRP and 1% PVP (MW=360K) in 0.02M PBS, pH 7.4. The membrane was then used to prepare test strips as described in example 2 and tested with H₂O₂ by the way DA-67 coated strips was tested. The results were plotted in figure 3.